

Material: AS 1030

Standard Specification for Carbon Steels and Carbon Manganese Steels

Group: Ferrous Mild Steel Alloys

Sub Group: AS 1030 Carbon Steels and Carbon Manganese Steels

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry: Bar, Wire, Tube and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.280 - 0.340	As- Cast or Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.100 - 0.350		
Manganese	Mn %	0.600 - 0.900		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	0.300 max.		
Nickel	Ni %	0.350 max.		
Molybdenum	Mo %	0.100 max.		
Copper	Cu %	0.350 max.		
Iron	Fe %	Balance	Mechanical Properties Tensile Strength in Mpa 470 - 520 Yield Strength in Mpa 260 min. Elongation in % 12 min. Reduction of Area in % 35 - 42 Hardness in HB 137 - 149 Impact in Joule 36.9 - 52.3 J @ RT	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J03012	UNS	USA	Casting
1025	AISI	USA	Bar, Wire, Tube and Forging
1030	SAE	USA	Bar, Wire, Tube and Forging
1030	AMS	USA	Bar, Wire, Tube and Forging
A915 Grade SC 1030	ASTM	USA	Casting
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